TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2018-11-22-53**	**Date: 14-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of community hall in SV Layout in Ward no.20 Ganganagar.	
Agency	:	Sri. U. Ramesh, Contractor, No.12, 4th, Sunrise Colony, Cholanayakanahalli, RT Nagar Post, Bengaluru-560032.	
Customer's Reference	:	EE/H/AE/WO/317/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-04-18	
Sample ID No	:	2018-11-22-53/05	
Sample Type/ Size	:	Ceramic tiles (300X300)mm	
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006	
Date of test	:	10-04-18	

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	12.04	12.01	12.08	12.04
2	300	300	300	300	12.01	12.03	12.01	12.01
3	300	300	300	300	12.03	12.01	12.03	12.03
4	300	300	300	300	12.06	12.05	12.08	12.06
5	300	300	300	300	12.08	12.01	12.05	12.08
6	300	300	300	300	12.03	12.07	12.03	12.07
7	300	300	300	300	12.01	12.01	12.01	12.01
8	300	300	300	300	12.02	12.01	12.04	12.01
9	300	300	300	300	12.04	12.04	12.02	12.04
10	300	300	300	300	12.04	12.01	12.05	12.04
Average	**300**		**300**		**12.04**			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1202	1246	3.66	3.14
2	1211	1245	2.81	
3	1254	1294	3.19	
4	1204	1252	3.99	
5	1231	1256	2.03	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	400	400	8.02	12.5	12.36
2	400	400	8.03	12.4	
3	401	400	8.01	12.9	
4	400	400	8.07	11.9	
5	400	400	8.05	12.1	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-13-72** **Date: 01/05/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Dr.B.R AMBEDKAR BHAVAN in kogilu layout in ward no.05

Agency : Technical Manager(West),KRIDL,Bangalore.

Customer's Reference : EE(Project)YNKZone/WO/124/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-18

Sample ID No : 2018-12-13-72 /01

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	24/04/2018	01/05/2018	149.62 X 150.30 X 149.66	22488	8.518	483.5	21.5	21.7
2	Footing Concrete	M25	24/04/2018	01/05/2018	150.18 X 149.09 X 149.96	22391	8.355	494.8	22.1	
3	Footing Concrete	M25	24/04/2018	01/05/2018	151.24 X 149.44 X 150.22	22601	8.545	483.7	21.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-13-72** **Date: 22/05/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Dr.B.R AMBEDKAR BHAVAN in kogilu layout in ward no.05

Agency : Technical Manager(West),KRIDL,Bangalore.

Customer's Reference : EE(Project)YNKZone/WO/124/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-18

Sample ID No : 2018-12-13-72 /02

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	24/04/2018	22/05/2018	151.89 X 150.89 X 151.45	22917	8.046	632.5	27.6	27.8
2	Footing Concrete	M25	24/04/2018	22/05/2018	151.04 X 151.80 X 149.82	22928	8.306	653.5	28.5	
3	Footing Concrete	M25	24/04/2018	22/05/2018	152.00 X 149.77 X 150.39	22765	8.366	623.7	27.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-13-72** **Date: 01/05/2018**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Dr.B.R AMBEDKAR BHAVAN in kogilu layout in ward no.05
Agency	:	Technical Manager(West),KRIDL,Bangalore.
Customer's Reference	:	EE(Project)YNKZone/WO/124/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-18
Sample ID No	:	2018-12-13-72 /03
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	24/04/2018	01/05/2018	149.62 X 150.30 X 149.66	22488	8.518	488.0	21.7	22.0
2	Footing Concrete	M25	24/04/2018	01/05/2018	150.18 X 149.09 X 149.96	22391	8.355	510.5	22.8	
3	Footing Concrete	M25	24/04/2018	01/05/2018	151.24 X 149.44 X 150.22	22601	8.545	488.2	21.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-13-72** **Date: 22/05/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Dr.B.R AMBEDKAR BHAVAN in kogilu layout in ward no.05

Agency : Technical Manager(West),KRIDL,Bangalore.

Customer's Reference : EE(Project)YNKZone/WO/124/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-18

Sample ID No : 2018-12-13-72 /04

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M25	24/04/2018	22/05/2018	151.89 X 150.89 X 151.45	22917	8.046	627.9	27.4	27.8
2	Footing Concrete	M25	24/04/2018	22/05/2018	151.04 X 151.80 X 149.82	22928	8.306	660.3	28.8	
3	Footing Concrete	M25	24/04/2018	22/05/2018	152.00 X 149.77 X 150.39	22765	8.366	621.5	27.3	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-13-72** **Date: 08-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Dr.B.R AMBEDKAR BHAVAN in kogilu layout in ward no.05
Agency	:	Technical Manager(West),KRIDL,Bangalore.
Customer's Reference	:	EE(Project)YNKZone/WO/124/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-12-13-72 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	06-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-13-72** **Date: 03-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Dr.B.R AMBEDKAR BHAVAN in kogilu layout in ward no.05
Agency	:	Technical Manager(West),KRIDL,Bangalore.
Customer's Reference	:	EE(Project)YNKZone/WO/124/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-12-13-72 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	06-03-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-13-72** **Date: 10-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Dr.B.R AMBEDKAR BHAVAN in kogilu layout in ward no.05
Agency	:	Technical Manager(West),KRIDL,Bangalore.
Customer's Reference	:	EE(Project)YNKZone/WO/124/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	07-03-18
Sample ID No	:	2018-12-13-72 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	385	385	2.6	97.4	90-100
3	20 mm	7048	7433	49.6	50.4	30-70
4	10 mm	4396	11829	78.9	21.1	10-35
5	4.75 mm	2845	14674	97.8	2.2	0-5
6	Pan	326	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-13-72** **Date: 10-03-18**

Sample ID No : 2018-12-13-72 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.42	_
5	Bulk Density(Compacted) (Kg/l)	1.48	_
6	Water Absorption(%)	0.23	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2018-12-13-72 **Date: 15-03-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Dr.B.R AMBEDKAR BHAVAN in kogilu layout in ward no.05
Agency	:	Technical Manager(West),KRIDL,Bangalore.
Customer Reference	:	EE(Project)YNKZone/WO/124/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-03-18
Sample ID No	:	2018-12-13-72 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	318	318	6.4	93.6	90-100
3	10 mm	2852	3170	63.4	36.6	25-55
4	4.75 mm	1622	4792	95.8	4.2	0-10
5	Pan	208	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-13-72** **Date: 15-03-18**

Sample ID No : 2018-12-13-72 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-13-72**

Date: 21-03-18

Sample ID No : 2018-12-13-72 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.48	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	5.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-13-72** **Date: 21-03-18**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of Dr.B.R AMBEDKAR BHAVAN in kogilu layout in ward no.05

Agency : Technical Manager(West),KRIDL,Bangalore.

Customer's Reference : EE(Project)YNKZone/WO/124/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-03-18

Sample ID No : 2018-12-13-72 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 19-03-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	129	186	18.6	81.4	60-95	75-100	85-100	95-100
4	1.18 mm	219	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	203	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	179	787	78.7	21.3	5-20	8-30	12-40	15-50
7	150 micron	149	936	93.6	6.4	0-10	0-10	0-10	0-15
8	Pan	64	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/00

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-13-72**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Dr.B.R AMBEDKAR BHAVAN in kogilu layout in ward no.05
Agency	:	Technical Manager(West),KRIDL,Bangalore.
Customer's Reference	:	EE(Project)YNKZone/WO/124/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-18
Sample ID No	:	2018-12-13-72 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	03-04-18

Date: 04-04-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	509	612	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	527	648	22.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	548	672	21.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.582	568	697	20.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.479	589	702	19.5%	Satisfactory	Satisfactory
6	Sunvik	Fe501	25	3.473	598	710	18.0%	Satisfactory	Satisfactory

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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